Siddharth Bhattacharjee

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SKILLS

Languages and frameworks: Golang, C, C++, Python, Typescript, Java, Rust, Solidity, Django, GraphQL, React.
Tools: Kubernetes, Helm, AWS, GCP, Terraform, gRPC / Protobuf, Apache Kafka, PostgreSQL, Prometheus.

EDUCATION

University of Waterloo   Graduated in April 2023
Bachelor of Applied Science in Honours Computer Engineering

EXPERIENCE

Inflexion Games   Edmonton, AB
Game Services Programmer   *July 2023 - Present*
· Shipping services and infrastructure for Nightingale - a shared-world survival-crafting game being published by Tencent.

Carta   Kitchener, ON
Software Engineering Intern   *Sept 2022 - Dec 2022*
· Shipped new onboarding workflow for internal stakeholders to onboard **$325M** of assets onto the Carta platform.
· Migrated onboarding frontend from monolith to micro-frontend, reducing build times from 24h to 10 minutes.
· Decomposed subscriptions domain into dedicated service, greatly improving composability and developer experience.

Zynga   Toronto, ON
Software Engineering Intern, Data Ingestion   *Jan 2022 - April 2022*
· Architected and deployed observability infrastructure for new serverless data streaming pipeline.
· Built generic metrics library in Go to serve StatsD-like metrics to different providers like AWS Cloudwatch and Datadog.
· Streamlined QA and debugging pipelines by improving monitoring and logging using Splunk, Nagios and Terraform.

Dapper Labs   Vancouver, BC
Backend Engineer Co-op, NBA TopShot   *Jan 2021 - April 2021*
· Architected a data verification platform from scratch in Go to significantly accelerate Customer Support workflows.
· Optimized GraphQL queries by migrating resolvers to a dedicated read service and utilizing pagination and field querying.
· Led development on implementing new restrictions on transferring NFTs to minimize fraud on the platform.
· Created data migration jobs and corresponding event handlers to facilitate aforementioned feature work and data analysis.

DBRS Morningstar   Toronto, ON
Software Engineering Intern   *May 2019 - August 2019*
· Designed bulk import tool allowing analysts to instantiate **1000+** ratings through Excel spreadsheets at once.
· Created **view models** used for PDF generation to automate data retrieval, reducing workflow for analysts by **45%**.
· Developed new components in Angular 8 and corresponding RESTful API endpoints using ASP.NET Framework.

Waterloop Student Design Team   Waterloo, ON
Server Systems Developer   *Jan 2019 - April 2019*
· Designed Golang server and Protobuf interfaces for data streaming between desktop server and pod over WebSockets.
· Created Javascript + MongoDB client to test and log incoming pod information.

PROJECTS

rcuckoo *(Rust)*   ○
· Efficient 8-bit Cuckoo Filter implementation in Rust, as shown *here.*

1nil *(Python, gRPC, PostgreSQL)*   ○
· Video streaming and data analysis platform for minor and amateur sports leagues.

create-go-backend *(Rust)*   ○
· Tool to scaffold a Go backend exposing login and sign-up flows using JWTs with RBAC support.